

APPENDIX A

BENCHMARK CHARACTERISTIC ANALYSIS
OF DATA FROM FIXED STATIONS IN THE
EEL/ BIG WALNUT WATERSHED
1991 TO 1997

Station: EEL-1

	Valid N	Mean	Lower 95.000%	Upper 95.000%	Median	Sum	Minimum	Maximum	Quartile	Quartile	Range	Range	Variance	Sid Error	Error	Skewness	Skewness	Kurtosis	Kurtosis
Alkalinity (mg/l)	20	166.2	151.7735	180.6265	156	3324	125	212	141	203.5	87	62.5	950.1684	30.8248	6.892635	0.366273	0.512103	-1.4757	0.992384
Ammonia (mg/l as N)	21	0.188095	0.011373	0.364818	0.15	3.95	0.05	1.8	0.05	0.1	1.75	0.05	0.150726	0.388235	0.08472	3.948574	0.501195	16.60755	0.971941
BOD (mg/l)	18	1.288889	0.888547	1.689231	1.1	23.2	0.5	3	0.5	2.1	2.5	1.6	0.648105	0.805049	0.189752	0.798964	0.536278	-0.48226	1.037795
COD (mg/l)	21	15.77143	13.19501	18.34785	14.5	331.2	6.9	31	12	19.2	24.1	7.2	32.03614	5.660048	1.235124	0.958067	0.501195	1.319522	0.971941
Cyanide (mg/l)	20	0.00535	0.004719	0.005981	0.005	0.107	0.005	0.011	0.005	0.005	0.006	0	1.82E-06	0.001348	0.000302	4.289522	0.512103	18.73335	0.992384
Nitrate (mg/l as N)	21	1.971429	1.199187	2.74367	1.6	41.4	0.1	7.5	0.7	2.7	7.4	2	2.878143	1.686509	0.370209	7.152927	0.501195	4.59415	0.971941
Total Phosphorus (mg/l as P)	21	0.181429	0.055657	0.3072	0.12	3.81	0.03	1.36	0.07	0.16	1.33	0.09	0.076343	0.276302	0.060294	4.248512	0.501195	18.73335	0.971941
Total Solids (mg/l)	20	355	325.9748	384.0252	333.5	7100	274	500	321.5	387	226	65.5	3846.211	62.01782	13.86761	1.215672	0.512103	1.303178	0.992384
Suspended Solids (mg/l)	20	55.3	31.86034	78.73966	54	1106	2	210	24	286	208	35	2508.326	50.08319	11.18894	1.849716	0.512103	4.072329	0.992384
Dissolved Solids (mg/l)	7	260.4286	224.2575	296.5996	213	1823	223	334	233	286	111	53	1529.619	39.11034	14.78232	1.257618	0.793725	1.123241	1.587451
Sulfate (mg/l)	7	64.71429	2.52379	131.9524	35	453	27	227	30	65	200	30	5285.571	72.70194	27.47875	2.485622	0.793725	6.288917	1.587451
TKN (mg/l as N)	7	0.642857	0.458992	0.826722	0.7	4.5	0.3	0.9	0.5	0.8	0.6	0.3	0.039524	0.198806	0.075142	-0.65451	0.793725	0.34812	1.587451
E. coli (CFU/100ml)	20	428	69.29271	786.7073	195	8560	10	3400	50	350	3390	300	587437.9	766.445	171.3823	3.429066	0.512103	12.92842	0.992384
TOC (mg/l)	7	3.23	2.588855	3.811145	3.2	22.4	2.1	4.1	2.7	3.7	2	1	0.436667	0.660808	0.249762	-0.46577	0.793725	0.114983	1.587451
Hardness (mg/l)	20	223.95	200.89	247.01	222	4479	122	300	181.5	269	178	87.5	2427.734	49.27204	11.01756	-0.19681	0.512103	-0.83317	0.992384
Chloride (mg/l)	7	16.28571	13.74089	18.83054	15	114	13	21	15	19	8	4	7.571429	2.751623	1.040016	0.92844	0.793725	0.078248	1.587451
Dissolved Oxygen (mg/l)	17	10.05706	9.006878	11.10724	10.4	170.97	6.33	12.64	7.97	11.66	6.31	3.69	4.171997	2.042547	0.49539	-0.45983	0.549747	-1.11237	1.063198
pH	17	7.977647	7.864672	8.090622	8	135.62	7.6	8.35	7.87	8.04	0.75	0.17	0.048282	0.219731	0.053293	0.044435	0.549747	-0.57524	1.063198
Copper (ug/l)	9	4.722222	2.069544	7.3749	2	42.5	2	10	2	8	8	6	11.90944	3.451006	1.150335	0.647455	0.717137	-1.67556	1.399708
Zinc (ug/l)	8	1876.25	686.5803	3065.92	1600	15010	230	4500	940	2600	4270	1660	2024970	1423.014	503.1115	1.069023	0.752101	0.390549	1.480808
	9	104.4056	-113.425	322.2359	10	939.65	2.25	860	7.9	17	857.75	9.1	80308.07	283.3868	94.46226	2.998414	0.717137	8.992945	1.399708

Station: MC-18

	Valid N	Mean	Confid.	Confid.	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quantile Range	Variance	Std Dev.	Error	Skewness	Kurtosis	Kurtosis
			-95.000%	+95.000%														
Alkalinity (mg/l)	20	216.45	198.9079	233.9921	215.5	4329	116	291	207.5	234	175	26.5	1404.892	37.48189	8.381205	-0.69465	0.512103	2.087518
Ammonia (mg/l as N)	20	0.065	0.043392	0.086608	0.05	1.3	0.05	0.2	0.05	0.05	0.15	0	0.002132	0.046169	0.010324	2.887939	0.512103	7.037037
BOD (mg/l)	19	1.042105	0.628635	1.455576	0.5	19.8	0.5	3.4	0.5	1.7	2.9	1.2	0.735906	0.85785	0.198804	1.554543	0.523767	1.776239
COD (mg/l)	19	11.32105	8.00809	14.63402	9	215.1	2.5	30.1	7	14	27.6	7	47.2462	6.873587	1.576909	1.682902	0.523767	2.71504
Cyanide (mg/l)	0																	
Nitrate (mg/l as N)	20	2.5875	1.767196	3.407804	2.55	51.75	0.05	5.4	0.95	4.1	5.35	3.15	3.072072	1.752733	0.391923	-0.16277	0.512103	-1.35025
Total Phosphorus (mg/l as P)	20	0.097	0.037034	0.156968	0.055	1.94	0.015	0.56	0.035	0.1	0.545	0.065	0.016417	0.128128	0.02865	2.941055	0.512103	9.369956
Total Solids (mg/l)	20	380	337.2708	422.7292	355.5	7600	302	709	333	389.5	407	56.5	8335.474	91.29882	20.41504	2.891059	0.512103	9.272913
Suspended Solids (mg/l)	20	18.35	3213.305	33.4867	9.5	367	2	150	5	17	148	12	1046.029	32.34237	7.231974	3.913066	0.512103	16.3304
Dissolved Solids (mg/l)	19	338.8947	312.7983	364.9912	331	6439	244	468	305	354	224	49	2931.544	54.14373	12.42142	0.703954	0.523767	0.885653
Sulfate (mg/l)	7	30	24.27392	35.72608	31	210	18	38	28	34	20	6	38.33333	6.191392	2.340126	-1.13847	0.793725	2.573172
TKN (mg/l as N)	7	0.514286	0.146556	0.882015	0.4	3.6	0.3	1.4	0.3	0.5	1.1	0.2	0.158095	0.397612	0.150283	2.458503	0.793725	6.215104
E. coli (CFU/100ml)	20	545.5	-355.026	1446.026	100	10910	5	8700	55	130	8695	75	37023.18	1924.141	430.251	4.436477	0.512103	19.76854
TOC (mg/l)	6	3.416667	0.696691	6.136642	2.5	20.5	1.8	8.6	2	3.1	6.8	1.1	6.717667	2.591846	1.058117	2.235455	0.845154	5.163217
Hardness (mg/l)	20	272.95	251.0221	294.8779	275	5459	172	359	255.5	303	187	47.5	2195.208	46.85305	10.47666	-0.45092	0.512103	0.360151
Chloride (mg/l)	7	22.14286	16.95414	27.33158	22	155	14	32	18	24	18	6	31.47618	5.610365	2.120518	0.473082	0.793725	1.268408
Dissolved Oxygen (mg/l)	16	10.7725	9.575437	11.96956	10.51	172.36	7.18	14.6	8.25	12.41	7.42	3.585	5.04666	2.46477	0.561619	0.283712	0.564308	-0.80879
pH	16	8.038125	7.903641	8.172609	8.03	128.61	7.48	8.5	7.895	8.22	1.02	0.325	0.063696	0.252381	0.063095	-0.26847	0.564308	0.320418
Copper (ug/l)	7	2.785714	0.863141	4.708288	2	19.5	2	7.5	2	2	5.5	0	4.321429	2.078805	0.785714	2.645751	0.793725	7
Iron (ug/l)	7	1074.286	-273.42	2421.991	410	7520	290	4300	310	1200	4010	890	21234395	1457.222	550.7781	2.407072	0.793725	5.927621
Zinc (ug/l)	7	11.5	-0.64636	23.64636	5.9	80.5	2.25	37	2.25	22	34.75	19.75	172.4858	13.13339	4.963953	1.600563	0.793725	1.711074

Station: MC-35

	Valid N	Mean	Confid.	Confid.	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quantile Range	Variance	Std Dev.	Standard Error	Skewness	Std Err.	Kurtosis	Std Err.
Alkalinity (mg/l)	21	233.1429	-95.000%	+95.000%	236	4896	104	289	224	249	185	25	1563.329	39.53895	8.628106	-1.71883	0.501195	5.13035	0.971941
Ammonia (mg/l as N)	21	0.064286	0.039208	0.089366	0.05	1.35	0.05	0.3	0.05	0.05	0.25	0	0.003038	0.055097	0.012023	4.3239	0.501195	19.13495	0.971941
BOD (mg/l)	19	1.147368	0.396309	1.898428	0.5	21.8	0.5	7.3	0.5	1.3	6.8	0.8	2.428187	1.558264	0.35749	3.776238	0.523767	15.32136	1.01427
COD (mg/l)	20	10.81	3.6558	17.9642	6.85	216.2	2.5	71.7	3.75	9.6	69.2	5.85	233.6704	15.28628	3.418117	3.674755	0.512103	14.71916	0.992384
Cyanide (mg/l)	0																		
Nitrate (mg/l as N)	21	2.171429	1.536943	2.805914	2.7	45.6	0.05	4.1	0.7	3	4.05	2.3	1.942893	1.393877	0.304169	-0.29855	0.501195	-1.40525	0.971941
Total Phosphorus (mg/l as P)	21	0.068333	-0.01078	0.147445	0.015	1.435	0.015	0.82	0.015	0.04	0.805	0.025	0.030206	0.173798	0.037926	4.451853	0.501195	20.13079	0.971941
Total Solids (mg/l)	21	415.381	351.0198	479.7421	384	8723	337	1006	350	419	669	69	19991.85	141.3925	30.85438	3.985914	0.501195	17.09578	0.971941
Suspended Solids (mg/l)	21	41.2381	-34.9909	117.4671	4	866	2	772	2	6	770	4	28044.39	167.4646	36.54377	4.580222	0.501195	20.98489	0.971941
Dissolved Solids (mg/l)	20	361.45	338.5203	384.3797	360.5	7229	230	447	338.5	384.5	217	46	2400.366	48.99353	10.95529	-0.53362	0.512103	1.808152	0.992384
Sulfate (mg/l)	7	36.85714	26.03963	47.67466	39	258	15	52	32	44	37	12	136.0095	11.69656	4.420884	-0.96197	0.793725	1.699881	1.587451
TKN (mg/l as N)	7	1.042857	-0.26601	2.35172	0.3	7.3	0.2	3.8	0.2	2.2	3.6	2	2.002857	1.415223	0.534904	1.653086	0.793725	1.754976	1.587451
E. coli (CFU/100ml)	21	1525.238	-1030.65	4081.13	220	32030	40	26000	100	460	25960	360	3.2E+07	5614.944	1225.281	4.56365	0.501195	20.87757	0.971941
TOC (mg/l)	6	3.116667	0.471409	5.761925	2.3	18.7	1.4	8.2	2	2.5	6.8	0.5	6.353667	2.520648	1.02905	2.313977	0.845154	5.525142	1.740777
Hardness (mg/l)	21	288.2857	263.8629	312.7086	298	6054	164	372	256	324	208	68	2878.714	53.65365	11.70819	-0.82801	0.501195	0.293534	0.971941
Chloride (mg/l)	7	21.57143	14.49052	28.65233	23	151	10	35	17	24	25	7	58.61905	7.656308	2.893812	0.405394	0.793725	1.52218	1.587451
Dissolved Oxygen (mg/l)	17	10.97235	10.07698	11.86772	11.1	186.53	8.05	13.64	9.72	12.52	5.59	2.8	3.032644	1.741449	0.422363	-0.25036	0.549747	-1.0727	1.063198
pH	17	7.982941	7.827893	8.13789	8.05	135.71	7.2	8.33	7.92	8.19	1.13	0.27	0.090822	0.301367	0.073092	-1.79025	0.549747	3.043653	1.063198
Copper (ug/l)	8	4.4	1.049056	7.750944	2	35.2	2	13	2	6.1	11	4.1	16.06571	4.008206	1.417115	1.765168	0.752101	2.709237	1.48088
Iron (ug/l)	8	2250.875	-2731.7	7233.453	140	18007	67	17000	110	220	16933	110	3.6E+07	5959.873	2107.133	2.82781	0.752101	7.997368	1.48088
Zinc (ug/l)	12	10.2125	-2.08073	22.50573	5	122.55	2.25	71	2.25	7.65	68.75	5.4	374.351	19.34815	5.56533	3.336882	0.637302	11.34525	1.232246

APPENDIX B

EEL/ BIG WALNUT WATERS ASSESSED IN THE
CLEAN WATER ACT SECTION 305(B) REPORT
1996 TO 1998

Overall Use Support Status Report
06-04-98

Waterbody ID : **IN05120203010** Segment Number: 00
 Waterbody Name: Big Walnut Creek Basin (headwaters to Putnam Co line)
 Waterbody Type: River Size: 71.60 Miles
 Basin: WHITE RIVER

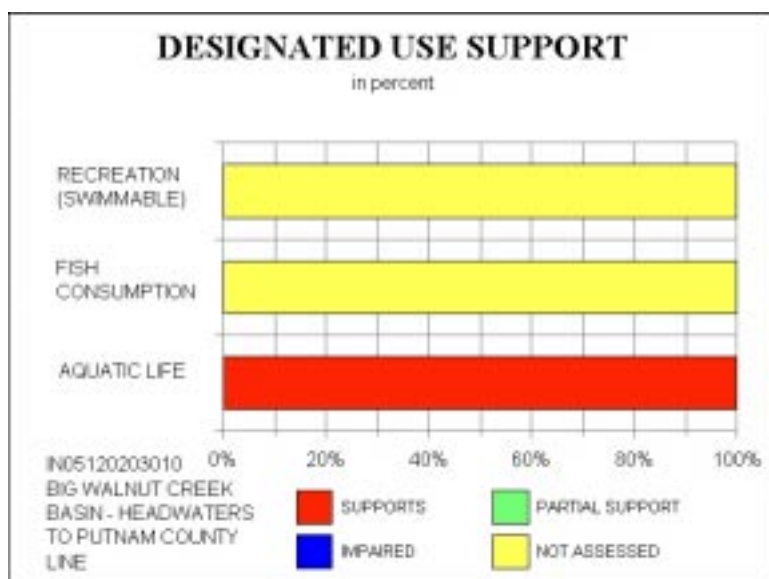
----- Description of the Waterbody -----

No description available

Assessment Date: 9804

----- Use Support -----

Designated Use	Fully Supp	Threat	Partial Supp	Not Supported	Not Attained	Not Assessed
AQUATIC LIFE SUPPORT	71.60	0.00	0.00	0.00	0.00	0.00
FISH CONSUMPTION	0.00	0.00	0.00	0.00	0.00	71.60
SWIMMABLE	0.00	0.00	0.00	0.00	0.00	71.60



----- Nonattainment Causes -----

Cause Size Mag

No causes listed

----- Nonattainment Sources -----

Source Size Mag

No sources listed

Overall Use Support Status Report
06-04-98

Waterbody ID : **IN05120203020** Segment Number: 00
 Waterbody Name: Big Walnut Creek (Putnam Co line to Eel R)
 Waterbody Type: River Size: 103.60 Miles
 Basin: WHITE RIVER

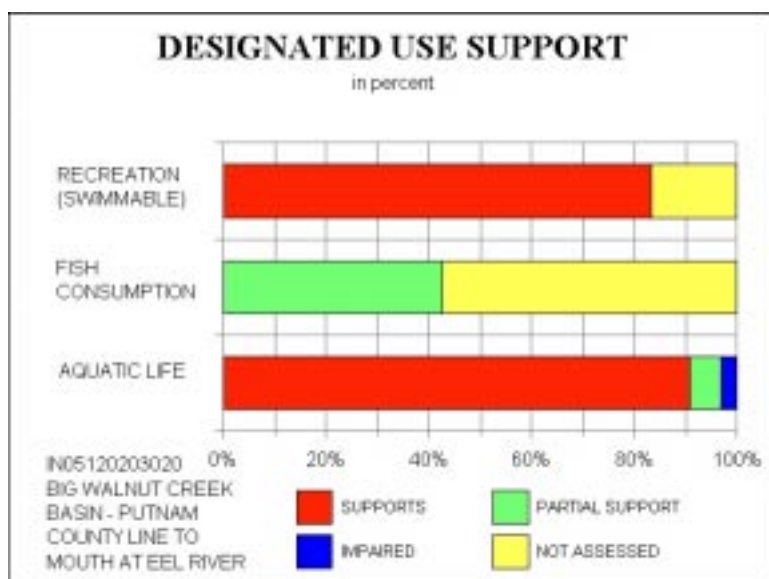
----- Description of the Waterbody -----

No description available

Assessment Date: 9804

----- Use Support -----

Designated Use	Fully Supp	Threat	Partial Supp	Not Supported	Not Attained	Not Assessed
AQUATIC LIFE SUPPORT	94.20	0.00	6.20	3.20	0.00	0.00
FISH CONSUMPTION	0.00	0.00	44.10	0.00	0.00	59.50
SWIMMABLE	86.40	0.00	0.00	0.00	0.00	17.20



----- Nonattainment Causes -----

Cause	Size	Mag
0500-METALS	44.10	M
0560-Mercury	44.10	M

----- Nonattainment Sources -----

Source	Size	Mag
9000-SOURCE UNKNOWN	44.10	M

Overall Use Support Status Report
06-04-98

Waterbody ID : **IN05120203030** Segment Number: 00
 Waterbody Name: Little Walnut Creek Basin (incl. Glenn Flint Lake)
 Waterbody Type: River Size: 47.30 Miles
 Basin: WHITE RIVER

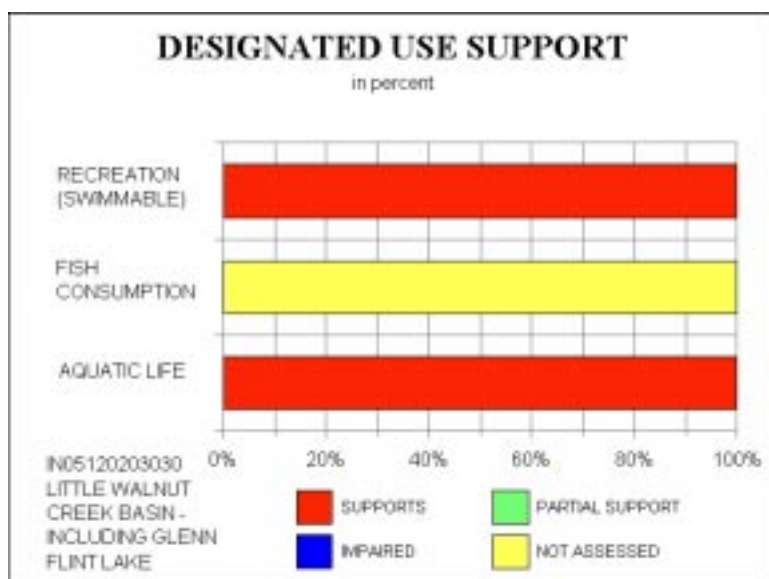
----- Description of the Waterbody -----

No description available

Assessment Date: 9804

----- Use Support -----

Designated Use	Fully Supp	Threat	Partial Supp	Not Supported	Not Attained	Not Assessed
AQUATIC LIFE SUPPORT	47.30	0.00	0.00	0.00	0.00	0.00
FISH CONSUMPTION	0.00	0.00	0.00	0.00	0.00	47.30
SWIMMABLE	47.30	0.00	0.00	0.00	0.00	0.00



----- Nonattainment Causes -----

Cause Size Mag

No causes listed

----- Nonattainment Sources -----

Source Size Mag

No sources listed

Overall Use Support Status Report
06-04-98

Waterbody ID : **IN05120203040** Segment Number: 00
 Waterbody Name: Deer Creek Basin (headwaters to Manhattan)
 Waterbody Type: River Size: 62.60 Miles
 Basin: WHITE RIVER

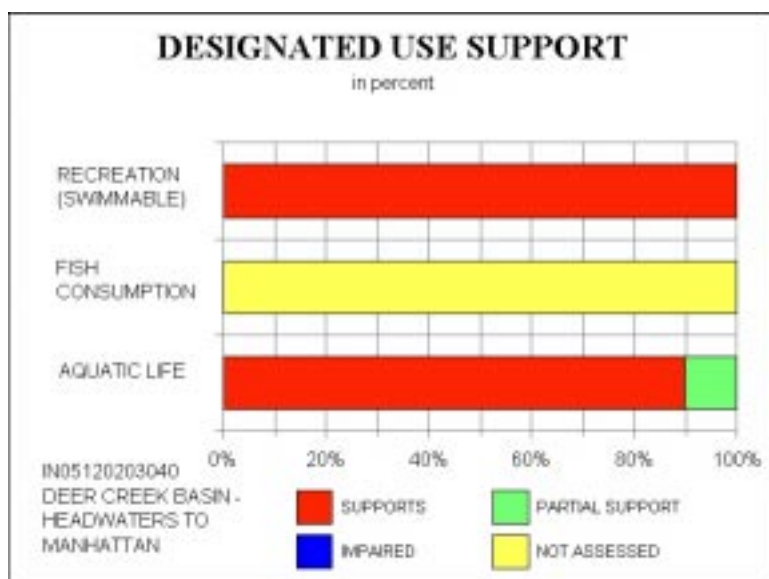
----- Description of the Waterbody -----

No description available

Assessment Date: 9804

----- Use Support -----

Designated Use	Fully Supp	Threat	Partial Supp	Not Supported	Not Attained	Not Assessed
AQUATIC LIFE SUPPORT	56.20	0.00	6.40	0.00	0.00	0.00
FISH CONSUMPTION	0.00	0.00	0.00	0.00	0.00	62.60
SWIMMABLE	62.60	0.00	0.00	0.00	0.00	0.00



----- Nonattainment Causes -----

Cause Size Mag

No causes listed

----- Nonattainment Sources -----

Source Size Mag

No sources listed

Overall Use Support Status Report
06-04-98

Waterbody ID : **IN05120203050**

Segment Number: 00

Waterbody Name: Mill Creek Basin

Waterbody Type: River

Size: 174.40 Miles

Basin: WHITE RIVER

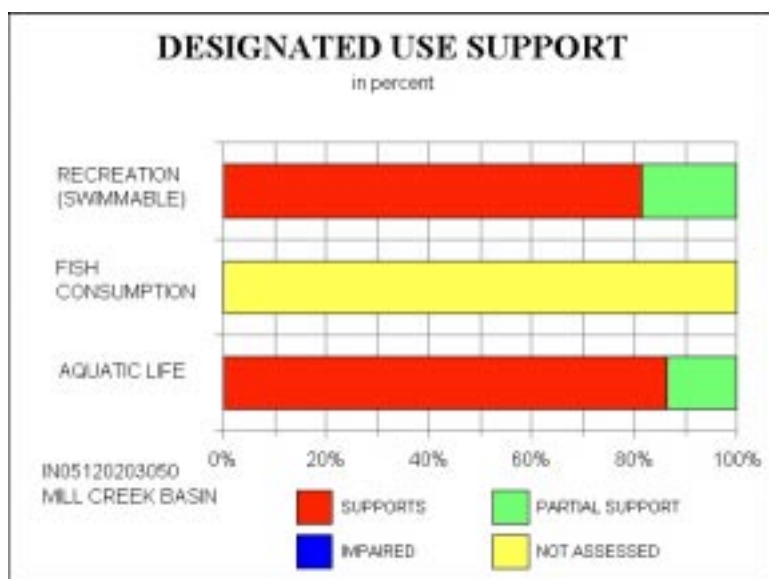
----- Description of the Waterbody -----

DOES NOT INCLUDE CATARACT LAKE.

Assessment Date: 9804

----- Use Support -----

Designated Use	Fully Supp	Threat	Partial Supp	Not Supported	Not Attained	Not Assessed
AQUATIC LIFE SUPPORT	152.40	0.00	24.00	0.00	0.00	0.00
FISH CONSUMPTION	0.00	0.00	0.00	0.00	0.00	176.40
SWIMMABLE	143.60	0.00	32.80	0.00	0.00	0.00



----- Nonattainment Causes -----

Cause	Size	Mag
1700-PATHOGENS	32.80	S
0000-CAUSE UNKNOWN	24.00	S

----- Nonattainment Sources -----

Source	Size	Mag
9000-SOURCE UNKNOWN	32.80	S

Overall Use Support Status Report
06-04-98

Waterbody ID : **IN05120203060** Segment Number: 00
 Waterbody Name: Eel River Basin (to Splunge Creek)
 Waterbody Type: River Size: 145.40 Miles
 Basin: WHITE RIVER

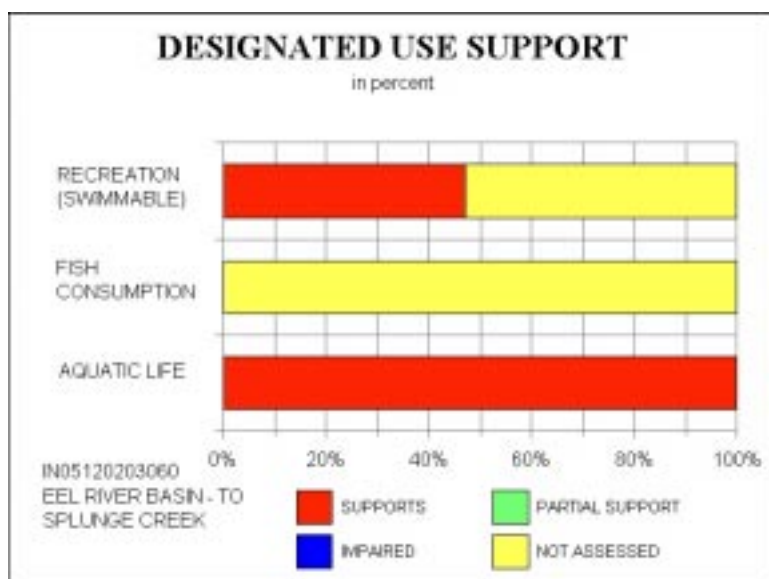
----- Description of the Waterbody -----

No description available

Assessment Date: 9804

----- Use Support -----

Designated Use	Fully Supp	Threat	Partial Supp	Not Supported	Not Attained	Not Assessed
AQUATIC LIFE SUPPORT	145.40	0.00	0.00	0.00	0.00	0.00
FISH CONSUMPTION	0.00	0.00	0.00	0.00	0.00	145.40
SWIMMABLE	68.30	0.00	0.00	0.00	0.00	77.10



----- Nonattainment Causes -----

Cause Size Mag

No causes listed

----- Nonattainment Sources -----

Source Size Mag

No sources listed

Overall Use Support Status Report
06-04-98

Waterbody ID : **IN05120203070**

Segment Number: 00

Waterbody Name: Jordan Creek Basin

Waterbody Type: River

Size: 16.70 Miles

Basin: WHITE RIVER

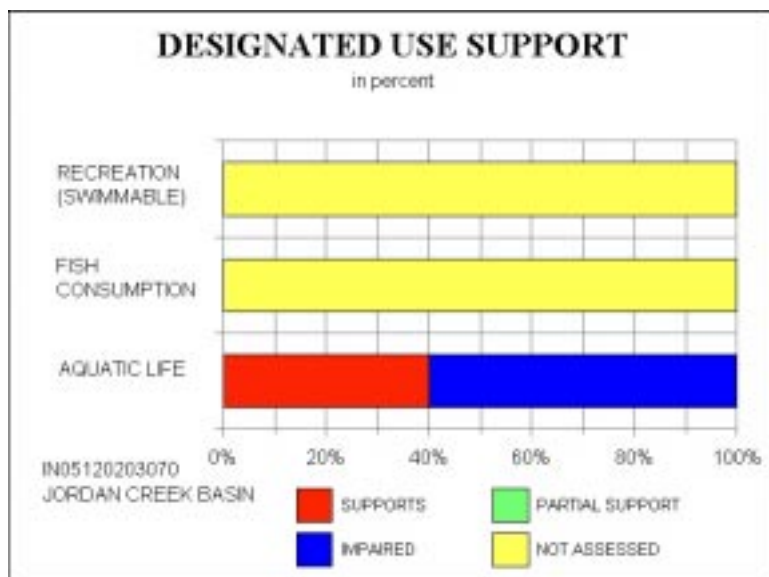
----- Description of the Waterbody -----

No description available

Assessment Date: 9804

----- Use Support -----

Designated Use	Fully Supp	Threat	Partial Supp	Not Supported	Not Attained	Not Assessed
AQUATIC LIFE SUPPORT	6.70	0.00	0.00	10.00	0.00	0.00
FISH CONSUMPTION	0.00	0.00	0.00	0.00	0.00	16.70
SWIMMABLE	0.00	0.00	0.00	0.00	0.00	16.70



----- Nonattainment Causes -----

Cause	Size	Mag
1600-HABITAT ALTER. (non-flow)	10.00	S

----- Nonattainment Sources -----

Source	Size	Mag
9000-SOURCE UNKNOWN	10.00	S

Overall Use Support Status Report
06-04-98

Waterbody ID : **IN05120203080** Segment Number: 00
 Waterbody Name: Eel River (Splunge Cr to W F White River)
 Waterbody Type: River Size: 170.80 Miles
 Basin: WHITE RIVER

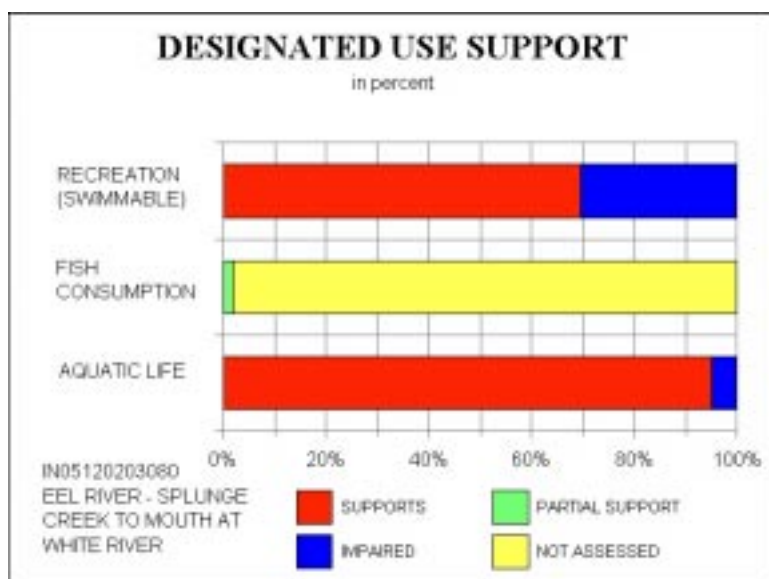
----- Description of the Waterbody -----

No description available

Assessment Date: 9804

----- Use Support -----

Designated Use	Fully Supp	Threat	Partial Supp	Not Supported	Not Attained	Not Assessed
AQUATIC LIFE SUPPORT	162.50	0.00	0.00	8.30	0.00	0.00
FISH CONSUMPTION	0.00	0.00	3.10	0.00	0.00	167.70
SWIMMABLE	118.90	0.00	0.00	51.90	0.00	0.00



----- Nonattainment Causes -----

Cause	Size	Mag
0410-PCBs	3.10	S
0500-METALS	3.10	S
0560-Mercury	3.10	S
1700-PATHOGENS	51.90	S

----- Nonattainment Sources -----

Source	Size	Mag
9000-SOURCE UNKNOWN	51.90	S

APPENDIX C

Potential Stakeholders in the Eel/ Big Walnut Watershed

Potential Stakeholders in the Eel/ Big Walnut Watershed

Boone County

Area Plan Commission
(765) 482-3821
B3 Courthouse Sq, Lebanon IN 46052

Boone County Building Inspctr
(765) 482-3821
B3 Courthouse Sq, Lebanon IN 46052

Boone County Soil & Water Conservation District
801 West Pearl St, Suite C, Lebanon IN 46052
(765) 482-6355

County Surveyor
102 Courthouse Sq, Lebanon IN 46052
(765) 483-4444

Purdue Cooperative Extension
1300 E 100 S, Lebanon IN 46052
(765) 482-0750

Boone County Solid Waste Dist
201 Courthouse Sq Lebanon, IN
(765) 483-0687

Mayors Office
201 E Main St Lebanon, IN
(765) 482-1201

Farm Service Agcy
803 W Pearl St # A Lebanon, IN
(765) 482-6355

Clay County

Clay County Commissioners
Brazil IN 47834
(812) 448-9008

Clay County Extension Office
609 E National Ave, Brazil IN 47834
(812) 448-9041

Clay County Surveyor
609 E National Ave, Brazil IN 47834
(812) 448-9017

Brazil City Mayor Ofc
203 E National Ave Brazil, IN
(812) 443-2221

Brazil Planning Adm
203 E National Ave Brazil, IN
(812) 446-0050

Brazil Treatment Plant
2205 E US Highway 40 Brazil, IN
(812) 448-1700

Brazil Water Works
203 E National Ave Brazil, IN
(812) 448-1539

Clay County Commissioners
609 E National Ave Brazil, IN
(812) 448-9008

Clay County Economic Develop
2 E National Ave Brazil, IN
(812) 448-8064

Clay County Health Dept
609 E National Ave # 203 Brazil, IN
(812) 448-9021

Clay County Soil & Water Conservation District
955 W. Craig Ave., Brazil, IN
(812) 446-8986

Greene County

Green County Farm Service Agency
30 W Indiana Ave Bloomfield, IN
(812) 384-4634

Greene County Surveyor
217 E Spring St # 2 Bloomfield, IN
(812) 384-2026

Linton Mayor's Office
86 Main St S Linton, IN
(812) 847-7754

Linton Water Dept Water Works
Buck Creek Rd S Linton, IN
(812) 847-4604

State Forest
2551 S State Road 159 Dugger, IN
(812) 648-2810

Greene County Solid Waste
Mgmt Rr 1 Switz City, IN
(812) 659-9955

Jasonville Mayor
145 S Lawton St Jasonville, IN
(812) 665-2266

Natural Resources Dept
State Road 48 Jasonville, IN
(812) 665-2207

Greene County Soil & Water Conservation
District
30 W. Indiana Ave. Suite 2
Bloomfield, IN
(812) 384-4636

Hendricks County

Hendricks County Commissioner
355 S Washington St # 204
Danville, IN
(317) 745-9221

Hendricks County Bldg Permits
355 S Washington St # 212
Danville, IN
(317) 745-9255

Hendricks County Engineer
355 S Washington St # 209
Danville, IN
(317) 745-9236

Hendricks County Planning Comm
355 S Washington St # 212
Danville, IN
(317) 745-9254

Hendricks County Recorders Ofc
355 S Washington St # 213
Danville, IN
(317) 745-9224

Hendricks County Surveyor
355 S Washington St Danville, IN
(317) 745-9237

Hendricks County Soil & Water
Conservation District
195 Meadow Drive, Suite 2, Danville, IN
(317) 745- 2555

Hendricks County Health Dept.
355 S. Washington St., Danville, IN
(317) 745-9217

Morgan County

County Commissioners
180 S Main St # 112 Martinsville, IN
(765) 342-1007

County Recorder
180 S Main St # 125 Martinsville, IN
(765) 342-1077

County Surveyor's Office
180 S Main St Martinsville, IN
(765) 342-1064

Morgan County Board Of Health
180 S Main St # 252 Martinsville, IN
(765) 342-6621

Morgan County contd.

Morgan County Office
5400 Blue Bluff Rd Martinsville, IN
(765) 349-6290

Morgan County Offices
1326 Morton Ave Martinsville, IN
(765) 349-9154

Morgan Monroe State Forest
6220 Forest Rd Martinsville, IN
(765) 342-4026

Morgan County Soil & Water Conservation
District
1328 Morton Ave Martinsville, IN
(765) 342-5595

Purdue Extension
180 S Main St # 229 Martinsville, IN
(765) 342-1010

Farm Service Agency
1328 Morton Ave # 2 Martinsville, IN
(765) 342-5594

Morgan County Farmers Union
8515 SR 142
Martinsville, IN 46151
(765) 528-2513

Morgan County Farm Bureau
Otis Patrick
13869 SR 42
Cloverdale, IN 46120
(765) 528-2226

Owen County

Chamber Of Commerce
51 E Franklin St Spencer, IN
(812) 829-3245

Indiana State Owen-Putnam
Frst 400 West St Spencer, IN
(812) 829-2462

Owen County Soil & Water Conservation
District

State Rd 46 Spencer, IN
(812) 829-2605

Owen County Adm
291 Vandalia Ave Spencer, IN
(812) 829-4412

Owen County Commissioner Ofc
Courthouse Spencer, IN
(812) 829-5058

Owen County Cooperative Ext
180 S Washington St Spencer, IN
(812) 829-5020

Parke County

County Zoning
116 W High St Rockville, IN
(765) 569-3394

Little Raccoon Conservancy
Courthouse Rockville, IN
(765) 569-6710

Parke County Soil & Water Conservation
District
US Route 36 Rockville, IN
(765) 569-3551

Parke County Co-Op Extension
US Route 41 Rockville, IN
(765) 569-3176

Parke County Health Office
116 W High St # 10 Rockville, IN
(765) 569-6665

Parke County Plan Commission
116 W High St # 105 Rockville, IN
(765) 569-3394

Parke County Sanitarian
116 W High St # 10 Rockville, IN
(765) 569-6665

Parke County Surveyors Office
Courthouse Rockville, IN
(765) 569-4063

US Army Corps Of Engineers
Rr 1 Rockville, IN
(765) 344-1570

Farm Service Agcy
State Road 36 W Rockville, IN
(765) 569-2028
USDA Rural Development
US Route 36 Rockville, IN
(765) 569-2036

Putnam County

Building Commissioner
1 N. Locust Street
Greencastle, IN 46135
(765) 653-8522

Greencastle Mayor's Office
1 N. Locust Street
Greencastle, IN 46135
(765) 653-3100

Greencastle Wastewater Dept
PO Box 288
Greencastle, IN 46135
(765) 653-6830

Greencastle Dept. of Water Works
PO Box 288
Greencastle, IN 46135
(765) 653-3394

Putnam County Soil & Water Conservation
District 5 Depot St Greencastle, IN
(765) 653-9785

Natural Resources Dept
64 N US Highway 231 # 3 Greencastle, IN
(765) 653-6615

Planning Commission & Zoning
1 Court House Square St Greencastle, IN
(765) 653-5727

Putnam County Board Of Health
1 Court House Square St Fl 4 Greencastle,
IN
(765) 653-5210

Putnam County Coop Extension
64 N US Highway 231 Greencastle, IN
(765) 653-8411

Putnam County Surveyor's Ofc
1 Court House Square St Greencastle, IN
(765) 653-5603

Farm Service Agency
64 N US Highway 231 Greencastle, IN
(765) 653-5716

Vigo County

Terre Haute Chamber-Commerce
643 Wabash Ave Terre Haute, IN
(812) 232-2391

Terre Haute Mayor's Office
17 Harding Ave Terre Haute, IN
(812) 232-4132

Terre Haute Sewage Dept
17 Harding Ave Terre Haute, IN
(812) 235-8101

Terre Haute Treatment Plant
3200 S State Road 63 Terre Haute, IN
(812) 232-6564

Farm Service Agency
3229 S 3rd Pl Terre Haute, IN
(812) 232-0193

Vigo County Area Planning Dept
201 Cherry St Terre Haute, IN
(812) 462-3354

Vigo County Commissioner's Ofc
201 Cherry St Terre Haute, IN
(812) 462-3367

Vigo County Surveyor's Office
Vigo County CourtHouse # 9
Terre Haute, IN
(812) 462-3380

Vigo County Soil & Water Conservation
District
Honey Creek West, 3241 S. 3rd. Place
Terre Haute, IN
(812) 232-0193

Conservancy Districts

Little Walnut Creek
P.O. Box 543, Greencastle, IN
(765) 653-4904

Clear Creek
P.O. Box 134, Coatsville, IN
(765) 246-6752

Van Bibber Lake
3202 Van Bibber Lake Estates M-6
Greencastle, IN
(765) 739-6671

Resource Conservation & Development Councils

Sycamore Trails RC&D
5 Depot St. Greencastle, IN
(765) 653-9785

Hoosier Heartland RC&D
5995 Lakeside Blvd. Suite B
Indianapolis, IN (317) 290-3250

Four Rivers RC&D
715 S. 9th. St. Petersburg, IN
(812) 354-6808

STATE STAKEHOLDERS

Indiana Farm Bureau Inc.
225 S East St
Indianapolis, IN 46202
(317) 692-7851

**Indiana Department of Environmental
Management**
100 N. Senate Ave
P.O. Box 6015
Indianapolis, IN 46206-6015

IDEM Switchboard
(317) 232-8603 or (800) 451-6027

Agricultural Liaison
(317) 232-8587

Air Management
(317) 233-0178

Community Relations
(317) 233-6648

Compliance and
Technical Assistance
(317) 232-8172

Criminal
Investigations
(317) 232-8128

Enforcement
(317) 233-5529

Environmental
Response
(317) 308-3017

Legal Counsel
(317) 232-8493

Media and
Communication
Services
(317) 232-8560

Pollution Prevention
and Technical
Assistance
(317) 232-8172

Solid and Hazardous
Waste Management
(317) 233-3656

Water Management
(317) 232-8670

Indiana Department of Natural Resources

402 West Washington Street
Indianapolis, IN 46204-2748

IDNR, Division of Soil Conservation, Field
Representatives are generally located with
the SWCD office in each county.

Division of Engineering
(317) 232-4150

Division of Entomology
and Plant Pathology
(317) 232-4120

Division of Fish & Wildlife
(317) 232-4080

Division of Forestry
(317)-232-4105

Division of Historic
Preservation & Archaeology
(317) 232-1646

Division of Law Enforcement
(317) 232-4010

Division of State
Parks and Reservoirs
(317)-232-4124

Division of Water
(317)-232-4160

Division of Public
Information and Education
(317) 232-4200

Division of Reclamation
(317)-232-1547

Division of Safety and Training
(317) 232-4145

Division of Soil Conservation
(317)-233-3870

Division of Oil and Gas
(317) 232-4055

Division of Outdoor Recreation
(317)-232-4070

Division of Nature Preserves
(317)-232-4052

Indiana State Department of Health

2 North Meridian St.
Indianapolis, IN 46204
(317) 233-1325

FEDERAL STAKEHOLDERS

Natural Resources

Conservation Service

6013 Lakeside Blvd
Indianapolis, In 46278
(317) 290-3200

*NRCS Field Representatives are generally
located with the SWCD office in each
county.*

U.S. EPA Region 5

77 West Jackson Blvd
Chicago, IL 60604
(312) 353-2000
(800) 632-8431

U.S. Army Corps of Engineers

Louisville District

Dr. Martin Luther King Jr. Place
Louisville, KY 40202

APPENDIX D

FUNDING SOURCES

FUNDING SOURCES

This listing of funding sources was derived from the November 1998 *Watershed Action Guide for Indiana*, which is available from the Watershed Management Section of IDEM.

FEDERAL CONSERVATION AND WATERSHED PROGRAMS

Environmental Protection Agency

Section 319, 604(b), and 104(b)3 Grants

Grants for conservation practices, water body assessment, watershed planning, and watershed projects. Available to non-profit or governmental entities. These monies, enabled by the Clean Water Act, are funneled through the Indiana Department of Environmental Management. *For details see IDEM below.*

U.S. Department of Agriculture (See county listings for local federal agency contacts.)

EQIP: Environmental Quality Incentive Program. Administered by the Natural Resources Conservation Service. Conservation cost-share program for implementing Best Management Practices, available to agricultural producers who agree to implement a whole-farm plan that addresses major resource concerns. Up to \$50,000 over a 5- to 10-year period. Some parts of the state are designated Conservation Priority Areas and receive a larger funding allotments.

WRP: Wetland Reserve Program. Administered by the Natural Resources Conservation Service. Easement and restoration program to restore agricultural production land to wetland. Easements may be for 10 years, 30 years, or permanent. Longer easements are preferred. Partnerships with other acquisition programs are encouraged. Restoration and legal costs are paid by NRCS. Landowner retains ownership of the property and may use the land in ways that do not interfere with wetland function and habitat, such as hunting, recreational development, and timber harvesting.

CRP: Conservation Reserve Program. Administered by the Farm Service Agency with technical assistance from NRCS. Conservation easements in certain critical areas on private property. Agricultural producers are eligible. Easements are for 10 or 15 years, depending on vegetative cover, and compensation payments are made yearly to replace income lost through not farming the land. Cost share is available for planting vegetative cover on restored areas.

WHIP: Wildlife Habitat Incentive Program. Administered by the Natural Resources Conservation Service. Cost share to restore habitat on previously farmed land. Private landowners who are agricultural producers are eligible. Cost share up to 75%, and contracts are for 10 years.

FIP: Forestry Incentive Program. Administered by the Natural Resources Conservation Service. Cost-share to assist forest management on private lands. Funds may be limited.

U.S. Fish & Wildlife Service

Partners for Wildlife : assistance for habitat restoration.

STATE CONSERVATION AND WATERSHED PROGRAMS

IDNR Division of Soil Conservation

LARE: Lake & River Enhancement Program. Funds diagnostic and feasibility studies in selected watersheds and cost-share programs through local Soil & Water Conservation Districts. Project oversight provided through county-based Resource Specialists and Lake & River Enhancement Watershed Coordinators. Funding requests for Watershed Land Treatment projects must come from Soil & Water Conservation Districts. If a proposed project area includes more than one district, the affected SWCDs should work together to develop an implementation plan. The SWCDs should then apply for the funding necessary to administer the watershed project. Before applying for funding, the SWCDs should contact the Lake & River Enhancement Coordinators to determine (1) the appropriate watershed to include in the project, (2) if the proposed project meets the eligibility criteria, and (3) if funding is available.

IDNR Division of Fish & Wildlife

Classified Wildlife Habitat Program: Incentive program to foster private wildlife habitat management through tax reduction and technical assistance. Landowners need 15 or more acres of habitat to be eligible. IDNR provides management plans and assistance through District Wildlife Managers. See county listings.

Wildlife Habitat Cost-share Program: Similar to above.

IDNR Division of Forestry

Classified Forest Program: Incentive program to foster private forest management through tax reduction and technical assistance. Landowners need 10 or more acres of woods to be eligible. IDNR provides management plans and assistance through District Foresters. (See county listings.)

Classified Windbreak Act: Establishment of windbreaks at least 450 feet long adjacent to tillable land. Provides tax incentive, technical assistance through IDNR District Foresters.

Forest Stewardship Program & Stewardship Incentives Program: Cost share and technical assistance to encourage responsibly managed and productive private forests.

IDNR Division of Reclamation

Appalachian Clean Streams Initiative: Funds for acid mine drainage abatement.

IDNR Division of Nature Preserves

State Nature Preserve Dedication: Acquisition and management of threatened habitat.

IDEM Office of Water Quality

State Revolving Fund: Available to municipalities and counties for facilities development. Will be available in 1999 for nonpoint source projects as well. Funding is through very low-interest loans.

Section 319 Grants: Available to nonprofit groups, municipalities, counties, and institutions for implementing water quality improvement projects that address nonpoint source pollution concerns. Twenty-five percent match is required, which may be cash or in-kind. Maximum grant amount is \$112,500. Projects are allowed two years for completion. Projects may be for land treatment through implementing Best Management Practices, for education, and for developing tools and applications for state-wide use.

Section 205(j) Grants, formerly called 604(b) Grants: Available to municipalities, counties, conservation districts, drainage districts. These are for water quality management projects such as studies of nonpoint pollution impacts, nonagricultural NPS mapping, and watershed management projects targeted to Northwest Indiana (including BMPs, wetland restoration, etc.)

Section 104(b)(3) Grants: These are watershed project grants for innovative demonstration projects to promote statewide watershed approaches for permitted discharges, development of storm water management plans by small municipalities, projects involving a watershed approach to municipal separate sewer systems, and projects that directly promote community based environmental protection. NOTE: the application time frame for IDEM grant programs is annually, by March 31st.

PRIVATE FUNDING SOURCES

National Fish and Wildlife Foundation

1120 Connecticut Avenue, NW Suite 900, Washington DC 20036. Nonprofit, established by Congress 1984, awards challenge grants for natural resource conservation. Federally appropriated funds are used to match private sector funds. Six program areas include wetland conservation, conservation education, fisheries, migratory bird conservation, conservation policy, and wildlife habitat.

Individual Utilities

Check local utilities such as IPALCO, CINergy, REMC, NIPSCO. Many have grants for educational and environmental purposes.

Indiana Hardwood Lumbermen's Association

Indiana Tree Farm Program

The Nature Conservancy

Land acquisition and restoration.

Southern Lake Michigan Conservation Initiative

Blue River Focus Area

Fish Creek Focus Area

Natural Areas Registry

Hoosier Landscapes Capitol Campaign

Conservation Technology Information Center (CTIC)

'Know Your Watershed' educational materials are available

Indiana Heritage Trust

Land acquisition programs

Ducks Unlimited

Land acquisition and habitat restoration assistance

Quail Unlimited

Pheasants Forever

Sycamore Land Trust

Acres Inc.

Land trust

Oxbow, Inc.

Land trust

SOURCES OF ADDITIONAL FUNDING OPPORTUNITIES

Catalog of Federal Funding Sources for Watershed Protection
EPA Office of Water (EPA841-B-97-008) September 1997

GrantsWeb: <http://www.srainternational.org/cws/sra/resource.htm>

Attachment 1

U.S. Geological Survey

National Water-Quality Assessment Program

Congress appropriated funds in 1986 for the U.S. Geological Survey (USGS) to begin a pilot program in seven project areas to develop and refine the National Water-Quality Assessment (NAWQA) Program. In 1991, the USGS began full implementation of the program. The NAWQA Program builds upon an existing base of water-quality studies of the USGS, as well as those of other Federal, State, and local agencies. The objectives of the NAWQA Program are to:

- Describe current water-quality conditions for a large part of the Nation's freshwater streams, rivers, and aquifers.
- Describe how water quality is changing over time.
- Improve understanding of the primary natural and human factors that affect water-quality conditions.

This information will help support the development and evaluation of management, regulatory, and monitoring decisions by other Federal, State, and local agencies to protect, use, and enhance water resources (Hirsch, 1997).

The NAWQA Program is assessing the water-quality conditions of more than 50 of the Nation's largest river basins and aquifers, known as Study Units. Collectively, these Study Units cover about one-half of the United States and include sources of drinking water used by about 70 percent of the U.S. population. Comprehensive assessments of about one-third of the Study Units are ongoing at a given time. Each Study Unit is scheduled to be revisited every decade to evaluate changes in water-quality conditions. NAWQA assessments rely heavily on existing information collected by the USGS and many other agencies as well as the use of nationally consistent study designs and methods of sampling and analysis. Such consistency simultaneously provides information about the status and trends in water quality conditions in a particular stream or aquifer and, more importantly, provides the basis to make comparisons among watersheds and improve our understanding of the factors that affect water-quality conditions regionally and nationally (Hirsch, 1998).

The White River Basin in Indiana was among the first 20 river basins to be studied as part of the NAWQA Program between 1992 and 1996. The USGS has published several reports and fact sheets, which address chemical, biological, and human factors within the watershed. The following is a partial listing of information available from the USGS NAWQA studies.

- Circular 1150, Water Quality in the White River Basin, Indiana, 1992-96.
- Report 94-4024, Water-Quality Assessment of the White River Basin, Indiana: Analysis of Available Information on Pesticides, 1972-92.
- Report 96-4192, Water-Quality Assessment of the White River Basin, Indiana: Analysis of Selected Information on Nutrients, 1980-92.
- Report 96-653A, Fish Communities and Habitat Data at Selected Sites in the White River Basin, Indiana, 1993-95.
- Report 97-4260, Environmental Setting and Natural Factors and Human Influences Affecting Water Quality in the White River Basin, Indiana.
- Fact Sheet 110-96, Occurrence of Nitrate in Ground Water in the White River Basin, Indiana, 1994-95.
- Fact Sheet 96-4232, Fishes of the White River Basin, Indiana.

- Fact Sheet 058-97, Trends in Acetochlor Concentrations in the Surface Waters of the White River Basin, Indiana, 1994-96.
- Fact Sheet 119-96, Influence of Natural and Human Factors on Pesticide Concentrations in Surface Waters of the White River Basin, Indiana.
- Fact Sheet 233-95, Occurrence of Pesticides in the White River, Indiana, 1991-95.
- Fact Sheet 209-96, Assessment of Water Quality at Selected Sites in the White River Basin, Indiana, 1993 and 1995 Using Biological Indices.
- Fact Sheet 124-96, Radon in the Fluvial Aquifers of the White River Basin, Indiana, 1995.
- Fact Sheet 138-96, Occurrence of Volatile Organic Compounds in Ground Water in the White River Basin, Indiana, 1994-95.
- Fact Sheet 084-96, Occurrence of Pesticides in Ground Water in the White River Basin, Indiana, 1994-95.

For additional information on the NAQWA Program, contact:

Project Chief

White River Basin Study

U.S. Geological Survey

5957 Lakeside Boulevard

Indianapolis, IN 46278-1996

317-290-3333

or visit, <http://in.water.usgs.gov/>

References

Hirsch, R.M. *in* Fenelon, J.M., 1998, Water quality in the White River basin, Indiana, 1992-96: U.S. Geological Survey Circular 1150, 1p.

Hirsch, R.M. *in* Baker, N.T. and Frey, J.W., 1997, Fish community and habitat data at selected sites in the White River basin, Indiana, 1993-95: U.S. Geological Survey Open File Report 96-653A, Forward.